

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(GaN same (low\$2 adj concentration adj layer) same (high\$2 adj concentration adj layer) same ((Nitrogen or N2) near ratio)).clm. and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 18:00
L2	0	(GaN same (low\$2 adj concentration adj layer) same (high\$2 adj concentration adj layer) same ((Nitrogen or N2) near ratio)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 18:00
L3	0	GaN and ((low\$2 adj concentration adj layer) same (high\$2 adj concentration adj layer) same ((Nitrogen or N2) near ratio)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 18:00
L4	0	GaN and ((low\$2 adj concentration) same (high\$2 adj concentration) same ((Nitrogen or N2) near ratio)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 18:03
L5	0	(GaN same (low\$2 adj concentration) same (high\$2 adj concentration) same (Nitrogen or N2)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 18:10
L6	2	((GaN or III\$1N or III-V) same (low\$2 adj concentration) same (high\$2 adj concentration) same (Nitrogen or N2)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 18:11
L7	26	(GaN or III\$1N or III-V) and ((low\$2 adj concentration) same (high\$2 adj concentration) same (Nitrogen or N2)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 18:16
L8	1	"10585744"	US-PGPUB; USPAT	OR	ON	2009/11/15 18:26
L9	0	((GaN or III\$1N or III-V) near4 source) with ratio) and ((low\$2 adj concentration) same (high\$2 adj concentration)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 18:39

L10	12	((GaN or III\$1N or III-V) near4 source) with ratio) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 18:39
S1	4	("20030010993"   "6252255"). PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/11 18:49
S2	1	"10585744"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/11 18:51
S3	96902	(III near nitride) or (III \$1nitride) or (III\$1V)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/11 20:26
S4	3425	(n\$1type or n\$1dop\$3) near4 (Germanium Ge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/11 20:27
S5	177412	(pit or dislocation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/11 20:28
S6	145542	dop\$3 with (high\$2 low\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/11 20:29
S7	46391	dop\$3 with (high\$2 low\$2) with (concentration density)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/11 20:30
S8	64	S3 and S4 and S5 and S7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/11 20:30
S9	30	S8 and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/11 20:32

S10	45	S5 and 257/101.ccls. and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/11 20:49
S11	55	S5 and 257/102.ccls. and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/11 21:03
S12	301	S5 and 257/103.ccls. and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/11 21:15
S13	78	S12 and pit	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/11 21:15
S14	18	("5091333"   "5895706"   "5927995"   "6010937"   "6015979"   "6281524").PN. OR ("6555846").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/11 22:10
S15	1398	pioneer.asn. and pit	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/11 22:20
S16	37	pioneer.asn. and pit and LED	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/11 22:20
S17	101	dop\$3 with (high\$2 low\$2) with (GaN III\$1V) with (germanium Ge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 00:30
S18	53	S17 and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 00:31

S19	54	(dop\$3 with (high\$2 low\$2) with (GaN III\$1V (III near2 nitride)) with (germanium Ge)) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 00:35
S20	97043	(III near nitride) or (III \$1nitride) or (III\$1V)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 00:45
S21	3443	(n\$1type or n\$1dop\$3) near4 (Germanium Ge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 00:45
S22	177753	(pit or dislocation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 00:45
S23	46511	dop\$3 with (high\$2 low\$2) with (concentration density)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 00:45
S24	64	S20 and S21 and S22 and S23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 00:45
S25	30	S24 and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 00:47
S26	285	257/94.cor. and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 00:55
S27	18	257/615.cor. and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 14:17

S28	5	("20020046693"   "20030070607"   "20030134493"   "6447604"   "6773504").PN. OR ("7288830").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/22 14:30
S29	317	257/615.ccls. and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 14:36
S30	4	257/e33.023.ccls. and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 15:59
S31	7	257/e29.087.ccls. and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:00
S32	347	257/616.ccls. and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:02
S33	337	S32 not S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:02
S34	542	high\$2 with low\$2 with dop\$3 with (germanium Ge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:11
S35	1198	n\$1type with (group near2 III) with nitride	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:13
S36	94849	(pit or protrusion) near3 surface	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:14

S37	0	S34 and S35 and S36 and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:14
S38	609876	(pit or protrusion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:14
S39	0	S34 and S35 and S38 and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:15
S40	0	S34 and S35 and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:16
S41	5015	high\$2 same low\$2 same dop \$3 same(germanium Ge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:16
S42	0	S35 and S38 and S41 and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:17
S43	14	S35 and S41 and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:17
S44	97043	(III near nitride) or (III \$1nitride) or (III\$1V)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 16:45
S45	3443	(n\$1type or n\$1dop\$3) near4 (Germanium Ge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 16:45

S46	46511	dop\$3 with (high\$2 low\$2) with (concentration density)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:45
S47	28	S44 and S45 and pit and S46	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:45
S48	9	S47 and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 16:46
S49	3854	(group near III near nitride near semiconductor) or (III-V near nitride near compound near semiconductor) or (GaN- based near2 semiconductor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 18:33
S50	94779	n-type near2 (layer or film or structure or region)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 18:33
S51	53954	(high\$2 near2 concentration) same (low\$2 near2 concentration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 18:37
S52	2695	S50 same S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 18:42
S53	189	S50 same ((Ge near2 dop\$3) or (dop\$3 near Ge))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 18:44
S54	3398266	pits or holes or cavities or depressions or valley or trough or recess	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 18:45

S55	4	S49 and S52 and S53 and S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 18:47
S56	0	S55 and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 18:49
S57	14	S49 and S52 and S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 19:02
S58	55	S49 and S50 and S51 and S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 19:09
S59	22	S58 and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 19:12
S60	24362	(n-type near2 (layer or film or structure or region)) same concentration	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 19:17
S61	216	S49 and S60 and S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 19:18
S62	16	("20020123246"   "20030070607"   "20040169192"   "20040206299"   "20050156153"   "20060046511"   "6365921"   "6555846").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 19:53
S63	28	("5886367"   "5927995"   "6072197"   "6100545"   "6130446").PN. OR ("6365921").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/22 20:04



S64	24	kawano.in. and (group near III)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 20:40
S65	0	("jp2003-017420").PN.	JPO; DERWENT	OR	OFF	2009/04/22 20:47
S66	0	("jp2003-17420").PN.	JPO; DERWENT	OR	OFF	2009/04/22 20:47
S67	0	("2003-17420").PN.	JPO; DERWENT	OR	OFF	2009/04/22 20:47
S68	4	("2003017420").PN.	JPO; DERWENT	OR	OFF	2009/04/22 20:47
S69	7	("20020053679"   "20020136932"   "5488233"   "5740192"   "6153894"   "6462357"   "6555846").PN. OR ("6943366").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/22 21:31
S70	2	("20040188691").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 21:35
S71	6	("6261931").PN. OR ("6462357").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/22 21:37
S72	53838	dislocation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 21:41
S73	4	S49 and S52 and S53 and S72	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 21:42
S74	30	S49 and S50 and S51 and (dislocation dislocation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 21:44
S75	14	S74 and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/22 21:44

S76	3	(bandoh near akira).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/23 09:11
S77	2	("20040113166").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/23 09:19
S78	2	"7053420".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/23 09:22
S79	15	("20010050376"   "20030085411"   "20040048471"   "5727015"   "5779924"   "6091083"   "6091085"   "6316785"   "6617182"   "6720586"   "6940098").PN. OR ("7053420").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/23 09:22
S80	5	("20030218179"   "20040113166"   "6091085"   "6531719"   "6623998").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/23 09:28
S81	0	257/e33.033.ccls. and @ad<"20040427" and (pits or dislocation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 09:31
S82	2	257/e33.033.ccls. and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 09:31
S83	4	257/e33.034.ccls. and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 09:32
S84	1477	257/79.ccls. and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 09:38

S85	687	257/79.cor. and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 09:39
S86	115	257/79.cor. and @ad<"20040427" and (pits or dislocation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 09:40
S87	11	257/101.cor. and @ad<"20040427" and (pits or dislocation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 10:01
S88	10	257/102.cor. and @ad<"20040427" and (pits or dislocation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 10:03
S89	121	257/103.cor. and @ad<"20040427" and (pits or dislocation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/23 10:05
S90	2	("20020123246").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/23 14:06
S91	37	("20020036286"   "20020042159"   "20020043890"   "20030178634"   "20040026704"   "20040051105"   "3909929"   "4985113"   "5332697"   "5429954"   "5633192"   "5652438"   "5717226"   "5767581"   "5786233"   "5787104"   "5804918"   "5874747"   "5880485"   "5888886"   "5900650"   "5929466"   "6030848"   "6046464"   "6090666"   "6103604"   "6172382"   "6177684"   "6191436"   "6242328"   "6261862"   "6277665"   "6355945"   "6423984"   "6429102"   "6455337"   "6465808").PN. OR ("6861270").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/23 14:40

S92	8	("4139858"   "4862471"   "5679152").PN. OR ("6103604").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/23 14:47
S93	1116	((dop\$3 impurity) with (high\$2 low\$2)) and (GaN III\$1V (III near2 nitride)) and (dop\$3 with (germanium Ge)) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 13:32
S94	263	S93 and (dislocation or pits)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 13:33
S95	149	S94 and (layered stack\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 13:33
S96	28464846	((dop\$3 impurity) with (high\$2 low\$2) with (germanium Ge)) and (GaN III\$1V (III near2 nitride)) and (layered stack\$2) and pits @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 13:41
S97	12	((dop\$3 impurity) with (high\$2 low\$2) with (germanium Ge)) and (GaN III\$1V (III near2 nitride)) and (layered stack\$2) and pits and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 13:42
S98	137	((dop\$3 impurity) with (high\$2 low\$2) with (germanium Ge)) and (GaN III\$1V (III near2 nitride)) and (layered stack\$2) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 13:44
S99	31	((dop\$3 impurity) with (high\$2 low\$2) with (germanium Ge)) and ((GaN III\$1V (III near2 nitride)) with (resist\$3 conduct \$5)) and (layered stack\$2) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 14:09
S100	72	((GaN III\$1V (III near2 nitride)) same ((germanium Ge) near4 (dop\$3 impurity)) same ((high low) and (resist\$5 conduct\$5))) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 14:18
S101	3862	(group near III near nitride near semiconductor) or (III-V near nitride near compound near semiconductor) or (GaN-based near2 semiconductor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 14:35

S102	94870	n-type near2 (layer or film or structure or region)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 14:35
S103	54023	(high\$2 near2 concentration) same (low\$2 near2 concentration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 14:35
S104	30	S101 and S102 and S103 and (dislocation dis\$1location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 14:35
S105	14	S101 and S102 and S103 and (dislocation dis\$1location) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 14:38
S106	97115	(III near nitride) or (III \$1nitride) or (III\$1V)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 14:42
S107	3443	(n\$1type or n\$1dop\$3) near4 (Germanium Ge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/27 14:42
S108	46561	dop\$3 with (high\$2 low\$2) with (concentration density)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 14:42
S109	28	S106 and S107 and pit and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 14:42
S110	4565	S102 and S103 and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 14:43

S111	168	S110 and (dop\$3 near5 (ge Germanium))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 14:45
S112	6	S111 and S101	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 14:57
S113	5	("20030047744"   "5889806"   "6249534"   "6252894"   "6597716").PN. OR ("6822272").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/27 15:08
S114	47	S111 and (low near resistance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 16:14
S115	2	"6462357".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/27 16:34
S116	6	("6261931").PN. OR ("6462357").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/27 16:46
S117	7	("20020053679"   "20020136932"   "5488233"   "5740192"   "6153894"   "6462357"   "6555846").PN. OR ("7172956").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/27 16:47
S118	6	("6261931").PN. OR ("6462357").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/27 17:30
S119	5	("20020046693"   "20030070607"   "20030134493"   "6447604"   "6773504").PN. OR ("7288830").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/27 17:52
S120	8	("20020123246"   "20030070607"   "20040169192"   "20040206299"   "20050156153"   "20060046511"   "6365921"   "6555846").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/27 18:10
S121	28	("5886367"   "5927995"   "6072197"   "6100545"   "6130446").PN. OR ("6365921").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/27 18:20
S122	1	"20050104081"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/29 14:20

S123	2	("20070029560").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/04 12:40
S124	14	("20040211969"   "20050062399"   "20050224829"   "20050236630"   "20060273324"   "20070018183"   "20070170448").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/04 12:42
S125	2	("20020123246").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/04 12:54
S126	0	("(AsainearKeiichiro).in. and (III nearnitride)").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/04 13:27
S127	50	(Asai near Keiichiro).in. and ( III near nitride)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/04 13:27
S128	50	(Asai near Keiichiro).in. and ( III near nitride)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/04 13:27
S129	228	(NGK near INSULATORS).asn. and( III near nitride)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/04 13:31
S130	111	(NGK near INSULATORS).asn. and( III near nitride) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/04 13:32
S131	5	("20020061655"   "20020155649"   "20020190275"   "5549951"   "6508878").PN. OR ("6749957").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 13:35

S132	4	"2003017420"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/04 17:39
S133	289	(KAWANO near KENJI).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/04 17:40
S134	0	(KAWANO near KENJI).in. and (III near nitride)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/04 17:40
S135	0	(KAWANO near KENJI).in. and (GaN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/04 17:41
S136	1	(KAWANO near KENJI).in. and Nichia	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/04 17:41
S137	1	(KAWANO near KENJI).in. and (gallium near nitride)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/04 17:41
S138	97235	(III near nitride) or (III \$1nitride) or (III\$1V)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 10:17
S139	130	S138 and ((carrier near gas) with flow with (high\$2 low\$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 10:17
S140	97235	(III near nitride) or (III \$1nitride) or (III\$1V)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 16:29



S141	59	S140 and (((("carrier gas" or "inert gas") near4 flow) with (dop\$3 impurity)) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 16:29
S142	0	S140 and (((("carrier gas" or "inert gas") with flow with different) with (dop\$3 impurity)) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 17:06
S143	96	S140 and (((("carrier gas" or "inert gas") with flow) with (dop\$3 impurity)) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 17:06
S144	94	((("carrier gas" or "inert gas") same (high near2 concentration) same (low near concentration)) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 17:23
S145	5	((("carrier gas" or "inert gas") same (high near2 concentration) same (low near concentration) same (flow near2 rate)) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 17:26
S146	4	(effect with carrier with gas with flow with Dop\$3) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 17:34
S147	1	((affect influence) with carrier with gas with flow with Dop \$3) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 17:37
S148	590562	((affect influence same ("carrier gas flow") same Dop\$3) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 17:38
S149	3	((affect influence) same ("carrier gas flow") same Dop \$3) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 17:39

S150	2	S140 and ((carrier near gas near flow near (high low higher lower)) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 17:58
S151	17	S140 and ((carrier near gas near flow) with (high low higher lower)) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 18:04
S152	8	S140 and ((inert near gas near flow) with (high low higher lower)) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 18:07
S153	1035	((inert near gas near flow) with (high low higher lower)) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 18:09
S154	731	((carrier near gas near flow) with (high low higher lower)) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 18:09
S155	88	S154 and ("257"/\$.ccls. or "438"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/05 18:17
S156	731	((carrier near gas near flow) with (high low higher lower)) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 09:41
S157	63	S156 and ("438"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 09:41
S158	17	((carrier near gas near flow) with (high low higher lower) with dop\$3) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 09:43

S159	14	438/935.ccls. and (carrier near gas near flow) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 10:00
S160	17	("4745088").PN. OR ("4992301").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 10:05
S161	5	("2003010993").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 10:34
S162	0	("200310993").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 10:35
S163	2	("20030010993").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 10:35
S164	4	("2001022946").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 11:26
S165	1	("200122946").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 11:26
S166	4	("2001022946").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 11:26
S167	2	"6252255".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 11:27
S168	253	(control\$3 with growth with ((carrier inert) near2 gas)) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 12:06

S169	14	(control\$3 with growth with dop\$3 with ((carrier inert) near2 gas)) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 12:28
S170	2	("20030089300").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 12:37
S171	2	("20030010993").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/05/06 14:15
S172	3	((AKIRA) near2 (BANDOH)). INV.	US-PGPUB; USPAT	OR	OFF	2009/11/12 20:56
S173	0	("20030085411"   "20030218179"   "20040026707"   "20040113166"   "6091085"   "6242764"   "6531719"   "6623998").PN.).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/12 21:01
S174	14	("20030085411"   "20030218179"   "20040026707"   "20040113166"   "6091085"   "6242764"   "6531719"   "6623998").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/12 21:01
S175	17	("4855249"   "5122845"   "5146465"   "5369289"   "5679152"   "5862167"   "5874747"   "5953581"   "6045626"   "6091083"   "6172382").PN. OR ("6623998").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/12 21:20
S176	16	("4855249"   "5122845"   "5146465"   "5369289"   "5862167"   "5874747"   "6045626"   "6091083"   "6172382").PN. OR ("6531719").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/12 21:23
S177	10	("5576637"   "5687123"   "5943273"   "6343045"   "6635934"   "6657911"   "6859403"   "6914803"   "6917556"   "6999338").PN.	US-PGPUB; USPAT	OR	OFF	2009/11/12 21:26

S178	9	("20020123246"   "20030070607"   "20040169192"   "20040206299"   "20050156153"   "20060046511"   "20080230800"   "6365921"   "6555846").PN.	US-PGPUB; USPAT	OR	OFF	2009/11/12 21:27
S179	19	("5091333"   "5895706"   "5927995"   "6010937"   "6015979"   "6281524").PN. OR ("6555846").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/12 21:34
S180	4238	(group near III near nitride near semiconductor) or (III-V near nitride near compound near semiconductor) or (GaN- based near2 semiconductor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/12 21:43
S181	99551	n-type near2 (layer or film or structure or region)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/12 21:43
S182	56743	(high\$2 near2 concentration) same (low\$2 near2 concentration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/12 21:43
S183	39	S180 and S181 and S182 and (dislocation dis\$1location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/12 21:43
S184	14	S183 and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/12 21:43
S185	313462	(dop\$3 impurity) with (high\$2 low\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/12 21:52
S186	195526	(dop\$3 impurity) with (high\$2 low\$2)	US-PGPUB; USPAT	OR	ON	2009/11/12 21:53
S187	27347	(III near nitride) or (III \$1nitride) or (III\$1V)	US-PGPUB; USPAT	OR	OFF	2009/11/12 21:53
S188	5165	(n\$1type or n\$1dop\$3) with (Germanium Ge)	US-PGPUB; USPAT	OR	OFF	2009/11/12 21:54
S189	80194	(pit or dislocation)	US-PGPUB; USPAT	OR	OFF	2009/11/12 21:54

S190	27527	((III near nitride) or (III \$1nitride) or (III\$1V)	US-PGPUB; USPAT	OR	ON	2009/11/12 21:55
S191	27527	((III near nitride) or (III \$1nitride) or (III\$1V)	US-PGPUB; USPAT	OR	ON	2009/11/12 21:55
S192	111306	(pit or dislocation)	US-PGPUB; USPAT	OR	ON	2009/11/12 21:55
S193	5173	(n\$1type or n\$1dop\$3) with (Germanium Ge)	US-PGPUB; USPAT	OR	ON	2009/11/12 21:55
S194	1579260	stack repetition repeated perid \$2	US-PGPUB; USPAT	OR	ON	2009/11/12 21:56
S195	134	S190 and S192 and S193 and S194 and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/12 21:57
S196	68	S195 and period\$3	US-PGPUB; USPAT	OR	ON	2009/11/12 22:13
S197	1	"6091085".pn.	US-PGPUB; USPAT	OR	ON	2009/11/12 22:57
S198	85	("5373174"   "5491350"   "5814839"   "5912477").PN. OR ("6091085").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/12 22:58
S199	23	("4971928"   "5032893"   "5040044"   "5373174"   "5491350"   "5652434"   "5779924"   "5814839"   "5912477"   "5929467"   "5962875"   "6015979"   "6046465"   "6051849"   "6091085"   "6111277"   "6133589"   "6153010"   "6229151"   "6291839"   "6316785"   "6410942").PN. OR ("7071494").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/12 23:06
S200	4	((III near nitride) or (III \$1nitride) or (III\$1V) or GaN or AlGaN) same (pit or dislocation or vacancy) same (germanium or Ge) same (dop \$3 or impurity) same (layered periodic repetition stack\$2)	US-PGPUB; USPAT	OR	ON	2009/11/13 10:42
S201	0	S200 and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/13 10:42
S202	110	((III near nitride) or (III \$1nitride) or (III\$1V) or GaN or AlGaN) same (pit or dislocation or vacancy) same (dop\$3 or impurity) same (layered periodic repetition stack\$2)	US-PGPUB; USPAT	OR	ON	2009/11/13 10:43

S203	67	S202 and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/13 10:43
S204	19	("5091333"   "5895706"   "5927995"   "6010937"   "6015979"   "6281524").PN. OR ("6555846").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/13 11:08
S205	37	("20020036286"   "20020042159"   "20020043890"   "20030178634"   "20040026704"   "20040051105"   "3909929"   "4985113"   "5332697"   "5429954"   "5633192"   "5652438"   "5717226"   "5767581"   "5786233"   "5787104"   "5804918"   "5874747"   "5880485"   "5888886"   "5900650"   "5929466"   "6030848"   "6046464"   "6090666"   "6103604"   "6172382"   "6177684"   "6191436"   "6242328"   "6261862"   "6277665"   "6355945"   "6423984"   "6429102"   "6455337"   "6465808").PN. OR ("6861270").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/13 11:23
S206	144115	(III near nitride) or (III \$1nitride) or (III\$1V) or GaN or AlGaN	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/13 11:31
S207	692	S206 and (threading near2 dislocation) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/13 11:32
S208	90	S206 and (threading near2 dislocation) and ((germanium or Ge) near3 (dop\$3 impurity)) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/13 11:33
S209	6	("20010019136"   "6015979"   "6030848"   "6232623"   "6408015").PN. OR ("6764871").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/13 11:40

S210	2	("20040113163").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/13 11:58
S211	1	"10585744"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/13 13:11
S212	144115	(III near nitride) or (III \$1nitride) or (III\$1V) or GaN or AlGaN	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/13 14:37
S213	692	S212 and (threading near2 dislocation) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/13 14:37
S214	16	S213 and (((stack\$3 period\$3) adj layer) with GaN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/13 14:38
S215	0	S213 and (((period\$3) adj layer) with GaN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/13 14:46
S216	5	S213 and (((period\$3) adj layer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/13 14:47
S217	19	("5185290"   "5798536"   "6051849"   "6110277"   "6121121"   "6146457"   "6153010"   "6177359"   "6274518"   "6316785"   "6319742"   "6329667"   "6355497"   "6365921"   "6403451"   "6500257"   "6582986").PN. OR ("6979584").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/13 14:53



S218	2	S213 and (((repetition) adj layer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/13 14:55
S219	24	("20030015708"   "20030062525"   "20030075728"   "20040195562"   "5158909"   "5602418"   "5622877"   "5877558"   "5956578"   "6110277"   "6255198"   "6323053"   "6437374"   "6507041"   "6515306"   "6524900"   "6576973"   "6586777"   "6586781"   "6602764"   "6608327"   "6610995"   "6617060").PN. OR ("7115896").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/13 15:10
S220	52	(low same (impurity concentration) same dop\$3 same high same (carrier inert) same gas same flow) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/13 18:49
S221	1	(((carrier or inert) near gas near flow) with high\$3 with low \$3 with (dope impurity)) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/13 19:06
S222	11	(((carrier or inert) near gas near flow) same high\$3 same low\$3 same (dope impurity)) and @ad< "20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/13 19:08
S223	0	(((carrier or inert) near gas near flow) near3 high\$3) same (low\$3 near4(dope impurity))) and @ad< "20040427"	US-PGPUB; USPAT	OR	OFF	2009/11/13 19:12
S224	3	(((carrier or inert) near gas near flow) with high\$3) same (low\$3 with (dope impurity))) and @ad< "20040427"	US-PGPUB; USPAT	OR	OFF	2009/11/13 19:13
S225	3	(((carrier or inert) near gas near flow) with high\$3) with (dope impurity)).clm. and @ad< "20040427"	US-PGPUB; USPAT	OR	OFF	2009/11/13 19:17
S226	0	(((carrier or inert) near gas near flow near high\$3) with (dope impurity)).clm. and @ad< "20040427"	US-PGPUB; USPAT	OR	OFF	2009/11/13 19:19

S227	0	((carrier or inert) near gas near flow near high\$3) with (dope impurity)) and @ad< "20040427"	US-PGPUB; USPAT	OR	OFF	2009/11/13 19:19
S228	0	((carrier or inert) near gas near flow near high\$3) same (dope impurity)) and @ad< "20040427"	US-PGPUB; USPAT	OR	OFF	2009/11/13 19:20
S229	5	((carrier or inert) near gas near flow near high\$3) same (dope impurity)) and @ad< "20040427"	US-PGPUB; USPAT	OR	ON	2009/11/13 19:20
S230	0	((carrier or inert) near gas near flow near high\$3) same (low near (dope impurity))) and @ad< "20040427"	US-PGPUB; USPAT	OR	ON	2009/11/13 19:22
S231	2	((carrier or inert) near gas near flow) same (low near (dope impurity))) and @ad< "20040427"	US-PGPUB; USPAT	OR	ON	2009/11/13 19:22
S232	8	((carrier or inert) near gas) with (low near (dope impurity))) and @ad< "20040427"	US-PGPUB; USPAT	OR	ON	2009/11/13 19:23
S233	186	((carrier or inert) near gas) with (low highr) with (dope impurity)) and @ad< "20040427"	US-PGPUB; USPAT	OR	ON	2009/11/13 19:26
S234	2736	((carrier or inert) near gas near flow near rate) and @ad< "20040427"	US-PGPUB; USPAT	OR	ON	2009/11/13 19:36
S235	71	S234 and ((carrier or inert) near gas near flow near rate) with higher)	US-PGPUB; USPAT	OR	ON	2009/11/13 19:37
S236	0	S234 and ((carrier or inert) near gas near flow near rate) with higher with dop\$3)	US-PGPUB; USPAT	OR	ON	2009/11/13 19:43
S237	3	S234 and ((carrier or inert) near gas) with higher with dop \$3)	US-PGPUB; USPAT	OR	ON	2009/11/13 19:44
S238	13	S234 and ((carrier or inert) near gas) with control with dop \$3)	US-PGPUB; USPAT	OR	ON	2009/11/13 19:58
S239	11283	((carrier or inert) near gas near flow) and @ad< "20040427"	US-PGPUB; USPAT	OR	ON	2009/11/14 09:42
S240	23	((carrier or inert) near gas near flow) with high with (impurity dop\$3)) and @ad< "20040427"	US-PGPUB; USPAT	OR	ON	2009/11/14 09:44

S241	3	((affect influence) same (carrier near gas near flow) same Dop\$3) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/14 11:54
S242	2	((affect influence) same (inert near gas near flow) same Dop \$3) and @ad<"20040427"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/14 11:56
S243	30	((carrier or inert) near flow) with (influence impact affect effect) with (impurity dop\$3)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/14 11:59
S244	15	((carrier or inert) near gas near flow) with (influence impact affect effect) with (impurity dop\$3)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/14 12:00
S245	0	((higher near (carrier or inert) near gas near flow) with (influence impact affect effect) with (impurity dop\$3)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/14 12:03
S246	0	((higher near (carrier or inert) near gas near flow) same (influence impact affect effect) same (impurity dop\$3)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/14 12:03
S247	90	((carrier or inert) near gas near flow) same ((impurity dop \$3) near concentration)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/14 12:14
S248	4	((carrier or inert) adj gas adj flow) near4 ((impurity dop\$3) adj concentration)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/14 12:30
S249	11	((carrier or inert) adj gas adj flow) with ((impurity dop\$3) adj concentration)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/14 12:32
S250	0	((high\$2 near2 concentration) near5 (high\$2 adj growth adj (speed rate))) same ((low\$2 near concentration) near5 (low \$2 adj growth adj (speed rate)))) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/14 14:51
S251	60	GaN same (low\$2 with growth with (speed rate)) same (high \$2 with growth with (speed rate)) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 13:00

S252	17	GaN same (low\$2 with growth with (speed rate)) same (high \$2 with growth with (speed rate) same different) and @ad<"20040427"	US-PGPUB; USPAT	OR	ON	2009/11/15 14:15
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